

IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

Claim 1. (Currently Amended) A network apparatus comprising:

a receiving unit ~~adapted to receive~~ for receiving data from a network;

a detecting unit ~~adapted to detect~~ for detecting a value indicative of a data length, the value being in a packet header of the data received by said receiving unit, the packet header being provided for a predetermined protocol; and

a setting unit ~~adapted to set~~ for setting a logic address of said network apparatus based on a destination logic address of the received data ~~as a logic address of said network apparatus~~ so that the logic address of said network apparatus and the destination logic address of the received data are the same in a case where the detected value indicative of the data length is a specific value indicative of a specific data length different from actual data length of the received data, and a destination physical address of the received data and a physical address of said network apparatus are the same.

Claim 2. (Previously Presented) An apparatus according to claim 1, wherein, in a case where the destination logic address of the received data and the logic address of said network apparatus differ, the destination physical address of the received data and the physical address of said network apparatus are the same, and the detected value indicative of the data

length is the specific value, said setting unit sets the destination logic address of the received data as the logic address of said network apparatus.

Claim 3. (Canceled).

Claim 4. (Previously Presented) An apparatus according to claim 1, wherein the physical address is a media access control address, and the logic address is an Internet protocol address.

Claim 5. (Canceled).

Claim 6. (Previously Presented) An apparatus according to claim 4, wherein the received data is an ICMP echo message by an ICMP protocol and the detected value indicates a data length of the ICMP echo message.

Claim 7. (Canceled).

Claim 8. (Currently Amended) A network apparatus comprising:

a receiving unit ~~adapted to receive~~ for receiving data from a network;

a detecting unit ~~adapted to detect~~ for detecting a TTL value, the value being in a packet header of the data received by said receiving unit, the packet header being provided for a predetermined protocol, the TTL value being referred to by a router and reduced by the router

when the router receives the data; and

a setting unit ~~adapted to set~~ for setting a logic address of said network apparatus based on a destination logic address of the received data as a logic address of said network apparatus so that the logic address of said network apparatus and the destination logic address of the received data are the same in a case where the detected TTL value is a specific TTL value different from a TTL value which is generally set by a ping program, and a destination physical address of the received data and a physical address of said network apparatus are the same.

Claim 9. (Currently Amended) A network apparatus comprising:

a receiving unit ~~adapted~~ for receiving an ICMP echo message;

a data length detecting unit ~~adapted~~ for detecting a value indicative of a data length, the value being in a packet header of the ICMP echo message received by said receiving unit; and

a setting unit ~~adapted~~ for setting an IP address of said network apparatus based on a destination IP address in an IP header of the received ICMP echo message as an IP address of said network apparatus so that the IP address of said network apparatus and the destination IP address of the received data are the same if the detected value indicative of the data length is a specific value indicative of a specific data length different from actual data length of the received ICMP echo message, and a destination MAC address of the received ICMP echo message and a MAC address of said network apparatus are the same.

Claim 10. (Previously Presented) An apparatus according to claim 9, wherein if

the destination IP address of the received ICMP echo message and the IP address of said network apparatus differ and the destination MAC address of the received ICMP echo message and the MAC address of said network apparatus are the same, said setting unit sets the IP address of said network apparatus in accordance with the detected value indicative of the data length.

Claim 11. (Canceled).

Claim 12. (Currently Amended) A method of controlling a network device comprising:

a receiving step, of receiving data from a network;

a detecting step, of detecting a value indicative of a data length, the value being in a packet header of the received data, the packet header being provided for a predetermined protocol; and

a setting step, of setting a logic address of said network apparatus based on a destination logic address of the received data ~~as a logic address of the network device~~ so that the logic address of said network apparatus and the destination logic address of the received data are the same in a case where the detected value indicative of the data length is a specific value indicative of a specific data length different from actual data length of the received data, and a destination physical address of the received data and a physical address of the network device are the same.

Claim 13. (Previously Presented) A method according to claim 12, wherein, in a

case where the destination logic address of the received data and the logic address of said network apparatus differ, the destination physical address of the received data and the physical address of said network apparatus are the same, and the detected value indicative of the data length is the specific value, said setting step sets the destination logic address of the received data as the logic address of said network apparatus.

Claim14. (Canceled).

Claim 15. (Previously Presented) An apparatus according to claim 4, wherein the received data is an ICMP echo message by an ICMP protocol and the detected value indicates a data length of the ICMP echo message.

Claim 16. (Canceled).

Claim 17. (Previously Presented) A method according to claim 15, wherein the received data is an ICMP echo message by an ICMP protocol and the detected value indicates a data length of the ICMP echo message.

Claim 18. (Canceled).

Claim 19. (Currently Amended) A method of controlling a network device comprising:

a receiving step, of receiving data from a network;

a detecting step, of detecting a TTL value, the value being in a packet header of the received data, the packet header being provided for a predetermined protocol, the TTL value being referred to by a router ~~[[an]]~~ and reduced by the router when the router receives the data; and

a setting step, of setting a logic address of said network apparatus based on a destination logic address of the received data as a logic address of the network device so that the logic addresses of said network apparatus and the destination logic address of the received data are the same in a case where the detected TTL value is a specific TTL value ~~different from a TTL value which is generally set by a ping program,~~ and a destination physical address of the received data and a physical address of the network device are the same.

Claim 20. (Currently Amended) A method of controlling a network device comprising:

a receiving step, of receiving an ICMP echo message;

a data length detecting step, of detecting a value indicative of a data length, the value being in a packet header of the received ICMP echo message; and

a setting step, of setting an IP address of said network apparatus based on a destination IP address in an IP header of the received ICMP echo message as an IP address of the network device so that the IP address of said network apparatus and the destination IP address of the received data are the same if the detected value indicative of the data length is a specific value indicative of a specific data length different from actual data length of the received ICMP

echo message, and a destination MAC address of the received ICMP echo message and a MAC address of the network device are the same.

Claim 21. (Preciously Presented) A method according to claim 20, wherein in said setting step, if the destination IP address of the received ICMP echo message and the IP address of said network apparatus differ and the destination MAC address of the received ICMP echo message and the MAC address of said network apparatus are the same, the IP address of the network device is set in accordance with the detected data length.

Claims 22 - 46. (Canceled).

Claim 47. (Currently Amended) A network apparatus comprising:

a receiving unit ~~adapted to receive~~ for receiving data from a network;

a detecting unit ~~adapted to detect~~ for detecting a value indicative of a data length, the value being in a packet header of the data received by said receiving unit, the packet header being provided for a predetermined protocol; and

a setting unit ~~adapted to set~~ for setting an address of said network apparatus based on a destination address of the received data ~~as an address of the network apparatus so that~~ the address of said network apparatus and the destination address of the received data are the same in a case where the detected value indicative of the data length is a specific value indicative of a specific data length different from actual data length of the received data, and a destination physical address of the received data and a physical address of said network apparatus are the

same.

Claim 48. (Previously Presented) An apparatus according to claim 47, wherein the address is an Internet protocol address.

Claim 49. (Currently Amended) A network apparatus comprising:

a receiving unit ~~adapted to receive~~ for receiving data from a network;

a detecting unit ~~adapted to detect~~ for detecting a value indicative of a data length, the value being in a packet header of the data received by said receiving unit, the packet header being provided for a predetermined protocol; and

a setting unit ~~adapted to set~~ for setting an address of said network apparatus based on a first destination address of the received data ~~as an address of said network apparatus so that the address of said network apparatus and the first destination address of the received data are the same~~ in a case where the detected value indicative of the data length is a specific value indicative of a specific data length different from actual data length of the received data, and a second destination address of the received data and an address unique to said network apparatus are the same,

wherein the first and second destination address differ from each other.